

Quanxi JIA

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EDUCATION

9/1991 **Ph.D.** in Electrical & Computer Engineering, SUNY at Buffalo, NY
4/1985 **M.S.** in Electronic Engineering, Jiaotong Univ., Xian, China
7/1982 **B.S.** in Electronic Engineering, Jiaotong Univ., Xian, China

PROFESSIONAL EXPERIENCE

9/2003 - present Laboratory Fellow, Los Alamos National Laboratory (LANL)
11/2009 - present Thrust leader, Center for Integrated Nanotechnologies, LANL
8/1996 - 10/2009 Team leader, Superconductivity Technology Center, LANL
1/1993 - present Technical staff member, LANL
4/1993 - 12/1993 Visiting Associate Professor, Kumamoto Univ., Japan
9/1991 - 8/1993 Research Associate, State University of New York (SUNY) at Buffalo
9/1988 - 8/1991 Teaching Assistant, SUNY at Buffalo
2/1988 - 8/1988 Research Associate, SUNY at Buffalo
12/1987 - 1/1988 Assistant Professor, Jiaotong Univ., Xian, China
5/1985 - 11/1987 Research Associate, Jiaotong Univ., Xian, China

PATENTS, PUBLICATIONS, PRESENTATIONS, & FUNDED PROJECTS

- More than 40 funded projects with total > \$25M
- 33 US patents issued
- More than 350 peer reviewed journal articles
- More than 70 invited seminars and conference presentations
- 8 book chapters, and over 60 refereed/un-refereed proceeding articles
- More than 250 conference presentations

HONORS

- *Fellow* of American Ceramic Society (ACerS), 2010
- Adjunct Professor, State Univ. of New Mexico, Las Cruces, NM (2010 - present)
- *Fellow* of American Physical Society (APS), 2009
- The Outstanding Women's Career Development Mentoring Awards, LANL, 2008
- The Federal Laboratory Consortium for Technology Transfer Awards, 2008
- Adjunct Professor, Jiaotong Univ., Xian, China (2008 - present)
- Asian-American Engineer of the Year Award, 2005
- LAAP award at Los Alamos National Laboratory, 2004
- Laboratory *Fellow* of Los Alamos National Laboratory, 2003
- Los Alamos National Laboratory Achievement Award, 2000
- Two R&D 100 awards - Underground Radio (1998); Flexible Superconducting Tape (2003)
- Listed in *Who's Who in Science and Engineering*
- Listed in *American Men and Women of Science*
- Award for Excellence in Industrial Partnerships at LANL, 1996
- National Link Foundation Fellowship Award at SUNY (1990 - 1991)
- Distinguished teaching Award at Jiaotong Univ. (1986 - 1987)

RESEARCH INTERESTS

- Synthesis and structure-property relationships of nanostructured materials, multifunctional materials, thin films and multilayer systems. In particular, the growth of nanocomposite and multilayer metal-oxide thin films, the mechanism of film growth, optical/electrical properties of the films, and device applications of the films
- Novel deposition techniques for the growth of electronic materials with controlled structural and transport properties
- Development and fabrication of high-temperature superconducting films for coated conductors and devices, device applications of high temperature superconductor materials
- Development and fabrication of novel solid-state microelectronic/electro-optic devices, research on advanced semiconductor devices and materials
- Development and study of energy materials and devices

PROFESSIONAL SERVICES

- Have served as reviewer for the following technical journals: *Adv. Mater.*, *Adv. Functional Mater.*, *Appl. Phys. Lett.*, *J. Appl. Phys.*, *J. Vac. Sci. Technol.*, *J. Mater. Res.*, *Integrated Ferroelectrics*, *Ferroelectrics*, *IEEE Trans. Appl. Supercond.*, *IEEE Electron Devices Lett.*, *Phil. Mag. B*, *Physica B*, *Physica C*, *J. Am. Ceramic Soc.*, *Thin Solid Films*, *J. Phys. Chem. B*, *Chem. Mater.*, *J. Am. Chem. Soc.*, *ACS Nano*, *Small*, *Physica Status Solidi (a)*, *Appl. Surface Sci.*, *Electrochemical and Solid-State Lett.*, *International Journal of Photoenergy*, *Supercond. Sci. Technol.*, *J. Crystal Growth*, *Crystal Growth & Design*, and *Rev. Scientific Instruments*
- Have sat on the International Editorial Board for *Trans. Electrical & Electronic Materials*, Korean IEEE, 2010 - present
- Have been as the member of Executive Committee of the Electronics Division, American Ceramic Society (ACerS): Secretary-Elect (2008 - 2009), Secretary (2009 - 2010), Vice-chair & Program Chair (2010 - 2011)
- Served as the Chair of Award Committee of the Electronics Division, ACerS, 2007 - 2008
- Have been as the officers of LANL Fellows: Secretary (2009 - 2010), Deputy Coordinator (2010 - 2011)
- Have supervised 25 postdoctoral, graduate, and undergraduate students at LANL
- Was a chair of FY11 LDRD-DR Sci./Eng. Advisory Panel (Materials: discovery science to strategic applications), a member of the Proposal Review Committee for the LDRD-ER in 1996 - 1997 (Instrumentation and Diagnostics) and 2000 - 2002 (Eng. Sci.)
- Was a member of the Postdoctoral Selection Committee at LANL in 2002 - 2005
- Sat on the Division Deputy Leader Selection Committee for Materials Science & Technology Division at LANL, 2003
- Served in the NSF MRI/IMR program review panel, 2000
- Was a Reviewer of proposals from NSF, BES/DOE, SBIR, and others
- Was an external reviewer for the Korea Science Prizes (KOSEF), 2003
- Served in the organizing committees of many (over 20) international Symposia/conferences

MEMBERSHIPS

- American Physical Society (APS)
- American Ceramic Society (ACerS)
- Materials Research Society (MRS)